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## PATENT SPECIFICATION



Application Date: May 28, 1937. No. 14837/37.

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### PROVISIONAL SPECIFICATION

#### A New and Improved Crate or Box

We, JOHN HEATHER MARTIN BRETT, of 383, London Road, Mitcham, Surrey, and RICHARD RANSOM, of 29, Clive Road, Colliers Wood (S.W.19), both British

5 Subjects, do hereby declare the nature of this invention to be as follows:—

Our invention has reference to our Application for Letters Patent Number 14582 of 1937 (Serial No. 479,726) and is 10 an improvement or modification relative thereto.

In the packing and unpacking of crates and boxes, rapidity in such packing and unpacking is particularly desirable. In 15 our Application for Letters Patent Number 14582 of 1937 (Serial No. 479,726) we described in combination with a crate or box a number of adjusters or locators. Since the date of our said Application we 20 have discovered an improved type of adjuster or locator and consequently an improved type of crate or box.

The said adjusters or locators have for their objects to aid packing and unpacking in addition to the efficient storage and retention of the contents of the crate or box.

Our present invention has all the advantages of the invention described in the 30 Application for Letters Patent Number 14582 of 1937 (Serial No. 479,726) and (inter alia) the further advantage in that by their nature the said adjusters or locators assist to accomplish the objects 35 detailed in the preceding paragraph.

The embodiment as in our present invention results in greater efficiency in the retention of the contents of the crate or box when in store or in transit and consequently breakages of the said contents, such as containers, bottles and the like are 40 reduced to a minimum.

Our improvement or modification is comprised in the provision of adjusters or

locators made of spring steel rubber or 45 other suitable material and therefore of a nature admitting of elasticity when affixed within a crate or box.

The said adjusters or locators may be of such a width and thickness as may be suitable to meet the particular size of crate or 50 box required.

The said adjusters or locators are affixed in a suitable manner to the crate or box preferably at the top of the adjusters or 55 locators. The said adjusters or locators may be in the positions detailed in our Application for Letters Patent Number 14582 of 1937 (Serial No. 479,726) or such other positions as may be desirable. The 60 adjusters or locators are semi-circular or are shaped and the lowest portion of the same may be slightly upturned.

The adjusters or locators in the present invention are by their construction and 65 nature capable of greater powers of expansion and contraction than the said adjusters or locators in the parent application.

Further the curvature form of adjuster or locator admits of the rapid sliding of containers, bottles and the like into or out of the ends of the crate or box. 70

The containers, bottles and the like before mentioned are more firmly gripped 75 when the crate or box is partially or completely filled thus keeping them in position. It is within the ambit of the invention that the containers, bottles and the like may be of variable types and sizes.

The adjusters or locators constructed according to this invention are particularly durable and will function efficiently for a long period. Equally they may be readily replaced when so desired. 80

Dated the 28th day of May, 1937.

J. H. M. BRETT.  
RICHARD RANSOM.

### COMPLETE SPECIFICATION

#### A New and Improved Crate or Box

We, JOHN HEATHER MARTIN BRETT, of 383, London Road, Mitcham, Surrey, and RICHARD RANSOM, of 29, Clive Road, Colliers Wood (S.W.19), Surrey, both 90 British Subjects, do hereby declar the

nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

Our invention has reference to crates 95

and boxes suitable for the reception and carrying of such articles as bottles and the like.

In the packing and unpacking of crates 5 and boxes, rapidity in such packing and unpacking is particularly desirable.

It is also desirable to construct crates 10 and boxes which will (inter alia) have the following advantages:—(a) Economy in accommodation space in order to allow as many bottles and the like (as is possible) to be packed and carried in the said crates and boxes, (b) cheapness in construction of the said crates and boxes and (c) the 15 elimination (as far as possible) of the risk of breakages in the crates and boxes where the articles contained in the said crates and boxes are of a breakable nature.

Our invention has for its objects to provide 20 means whereby (a) economy in accommodation space within the crate or box may be effected and loss of the said space reduced to a minimum, (b) economy in the cost may be effected and (c) reduction 25 in the risk of damage to the contents of the crates or boxes will be effected.

Our invention consists of a crate having within it more than one resilient buffer each of which said buffers consists of a 30 spring blade having a straight part which is secured to the inner face of the crate an intermediate part which constitutes the greater part of the said buffer and is bowed with the convex side of the said buffer 35 facing inwards the further end being free and curved in the opposite direction.

The buffer may be of any suitable 40 resilient material such as spring steel or similar metal. We have also found that rubber would also be similarly suitable.

The said buffers have for their objects to aid packing and unpacking in addition to the efficient storage and retention of the contents of the crate or box.

45 The embodiment as in our present invention results in greater efficiency in the retention of the contents of the crate or box when in store or in transit and consequently breakages of the said contents, such as bottles and the like are reduced to a minimum.

Our invention is as stated comprised in the provision of buffers made of spring steel or other suitable material and which 55 are therefore of a nature admitting of elasticity when affixed within a crate or box. The said buffers may be of such a width and thickness as may be suitable to meet the particular size of the crate or 60 box required. The said buffers are affixed in a suitable manner to the crate or box preferably at the ends thereof.

It has hitherto been proposed to have certain devices functioning as a holder in 65 association with (1) a box or case for the

packing of bottles, jars and the like and which has two sets of bent resilient strips (2) packing means wherein the inner lining is formed of arched or bow shaped members the corners of which abut into the corners of a box (3) a box or carrier for safety razor blades (4) a holder and cover for boot polish tins and the like (5) an article for holding and/or displaying articles (6) a case for hats and the like and (7) a serving tray which includes a cylindrical holder for glasses. The said devices, however, all differ from the buffer as described in the present invention. The buffers are sometimes termed "adjusters" or "locators" in the trade.

The words "adjusters" and "locators" are generally known to have the following meanings:—(a) in the case of the word "adjuster", a device which by its adjustability will allow other articles, such as for example, bottles and the like to fit into a crate or box, (b) in the case of the word "locator", the term is used to mean a device which is set in a particular spot or affixed in a certain place and by its nature (and its adjustability) will determine the maximum number of bottles and the like which may be placed into a crate or box.

The descriptive material hereunder will assist in the identification of the drawings.

The buffers have a spring blade which is straight and secured to the inner face of the crate, then an intermediate part which is bowed and forms the greater part of the buffer. The convex side of the buffer faces inwards. The further end is free and curved in the opposite direction. The buffers in the present invention are by their construction and nature capable of both expansion and contraction. Further the form of the buffer admits of the rapid sliding of bottles and the like into or out of the ends of the crate or box.

The bottles and the like before mentioned are more firmly gripped when the crate or box is partially or completely filled thus keeping them in position. It is within the ambit of the invention that the bottles and the like may be of variable types and sizes. The buffers constructed according to this invention are particularly durable and will function efficiently for a long period, equally they may be readily replaced when so desired.

Our invention is illustrated in the accompanying drawings in which Figure 125 1 is a plan view of the crate or box showing four buffers therein. The invention is not in any way restricted to four of the said buffers. Figure 2 is a view in perspective showing the buffers within the 130

crate or box in dotted lines. Figure 3 is a plan view of one of the buffers and Figure 4 is a side view of one of the said buffers.

- 5 Both Figures 3 and 4 are on an enlarged scale. *a* is the crate or box. *b*, *c*, *d* and *e* are the sides of the crate or box. *f*, *g*, *h* and *i* are buffers. *j* shows the curved portion of the buffer. *k* and *l* are recesses 10 in the said crate or box suitable for the lifting and manipulation of the said crate or box.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A crate having within it more than one resilient buffer each of which said buffers consists of a spring blade having a 20 straight part which is secured to the inner face of the crate an intermediate part which constitutes the greater part of the said buffer and is bowed with the convex side of the said buffer facing inwards the 25 further end being free and curved in the opposite direction.

2. A crate as claimed in Claim No. 1, substantially as described herein with reference to the accompanying drawings. 30

Dated the 31st day of May, 1937.

J. H. M. BRETT.

RICHARD RANSOM.

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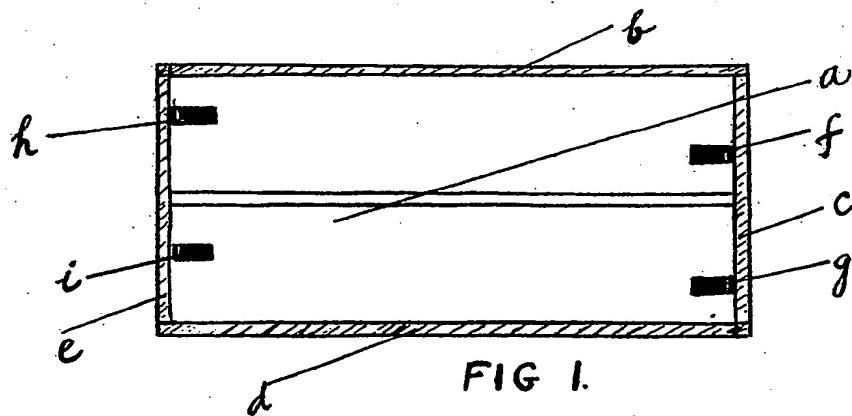


FIG. 1.

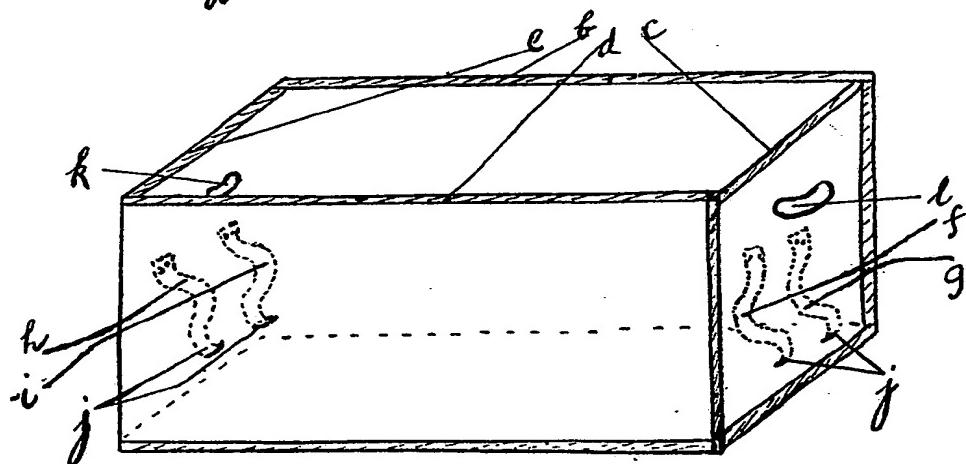


FIG. 2



FIG. 3



FIG. 4